Appendix B Meteorological Data

This section contains meteorological data derived from various regulatory and non-regulatory sites. The data provides a comparative analysis of winds speed, wind direction, wind gusts and concentration data. Please note that meteorological instruments measure at different heights, and at different time intervals. By taking, the actual time of measurement and assuring that all data represented is in Pacific Standard Time (PST) there is uniformity of the data. In addition, not all stations measure at the exact same time, i.e. measurements at 053 and 056 therefore, comparisons are measurements within a 60-minute period. While there may be some overlapping and slight differences the comparative analysis provides the reader with a better understanding of the regional effect of the Exceptional Event.

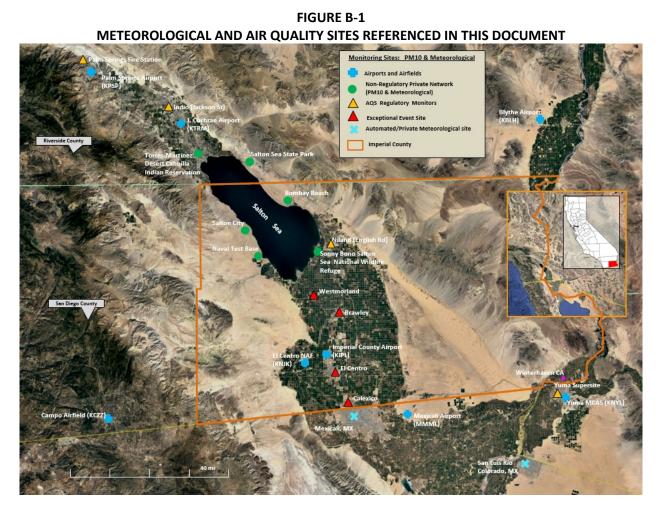


Fig. B-1: A collection of meteorological and air quality sites referenced in this document. Base map from Google Earth.

IMPERIAL COUNTY SITES FIGURES B-2 THROUGH B-9

FIGURE B-2 IMPERIAL COUNTRY AIRPORT (KIPL) WIND SPEED (AVERAGES), GUSTS & DIRECTION

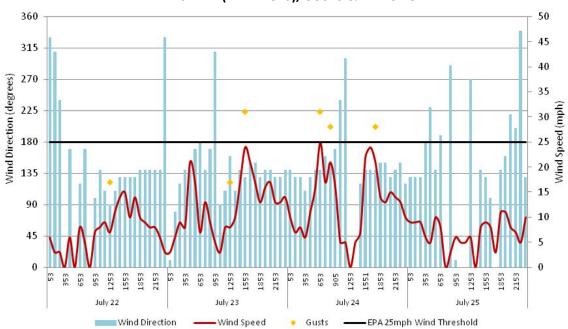


FIGURE B-3
IMPERIAL COUNTRY AIRPORT (KIPL) WIND ROSE – JULY 23 AND JULY 24

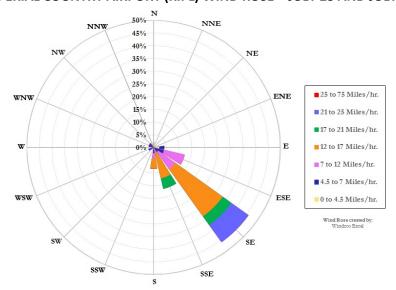


Fig. B-3: Imperial Airport meteorological data for July 23 and July 24 shows that southeast winds were just under 25 mph on July 23, but equaled it on July 24. Wind data from the NCEI's QCLCD system.

FIGURE B-4
EL CENTRO NAF (KNJK)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

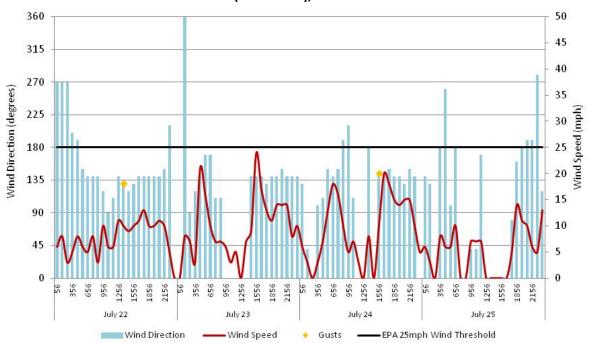
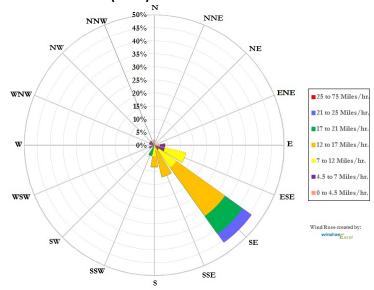


FIGURE B-5
EL CENTRO NAF (KNJK) WIND ROSE – JULY 23 AND JULY 24



Figs. B-4 & B-5: El Centro NAF meteorological data for July 23 and July 24 shows that southeast winds did not reach 25 mph on either days. Wind data from the NCEI's QCLCD system.

FIGURE B-6 CALEXICO WIND SPEED & DIRECTION

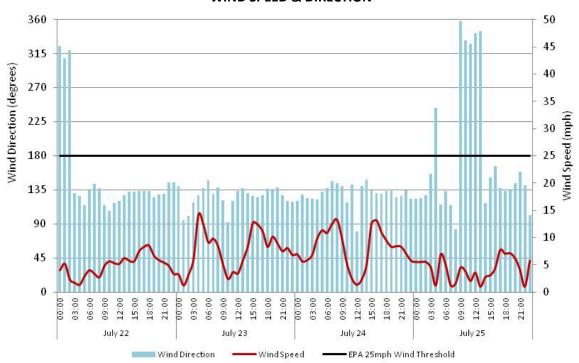
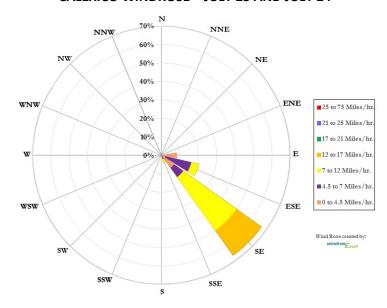
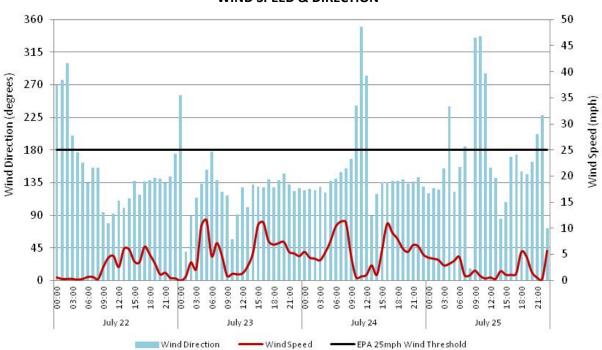


FIGURE B-7 CALEXICO WINDROSE – JULY 23 AND JULY 24

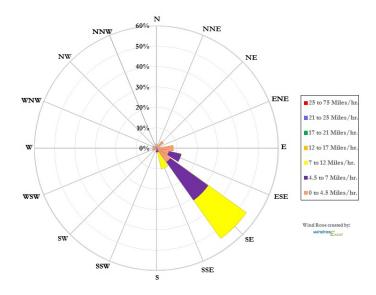


Figs. B-6 & B-7: Calexico meteorological data for July 23 and July 24 shows a distinct southeast direction. Wind data from the EPA's AQS data bank.

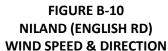




FIGURES B-9
EL CENTRO (9TH ST) WIND ROSE – JULY 23 AND JULY 24



Figs. B-8 & B-9: El Centro station meteorological data for July 23 and July 24 shows a distinct southeast direction. Wind data from the EPA's AQS data bank.



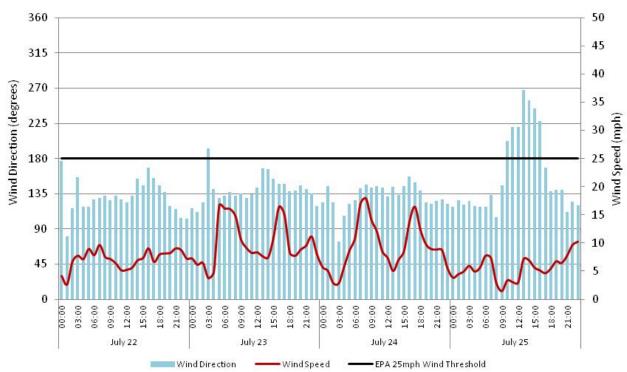
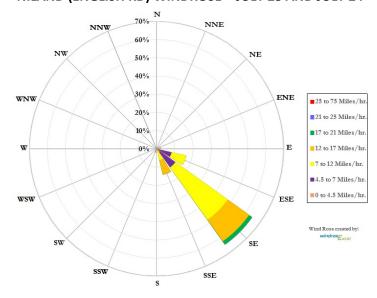


FIGURE B-11
NILAND (ENGLISH RD) WINDROSE – JULY 23 AND JULY 24



Figs. B-10 & B-11: Niland wind data for July 23 and July 24 shows a distinct southeast direction. Wind data from the EPA's AQS data bank.

FIGURE B-12 WESTMORLAND WIND SPEED & DIRECTION

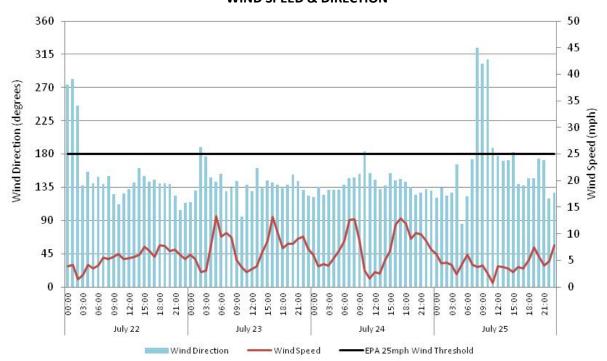
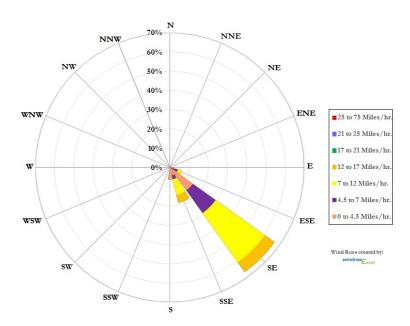


FIGURE B-13
WESTMORLAND WINDROSE – JULY 23 AND JULY 24



Figs. B-12 & B-13: Westmorland station meteorological data for July 23 and July 24. Shows a distinct southeast direction. Wind data from the EPA's AQS data bank.

EASTERN RIVERSIDE COUNTY SITES

FIGURE B-14 BLYTHE AIRPORT (KBLH) WIND SPEED (AVERAGES), GUSTS & DIRECTION

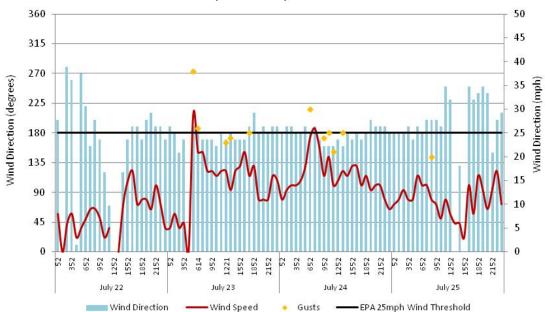


Fig. B-14: Wind data from the NCEI's QCLCD system.

FIGURE B-15 JACQUELINE COCHRAN REGIONAL AIRPORT (KTRM) WIND SPEED (AVERAGES), GUSTS & DIRECTION

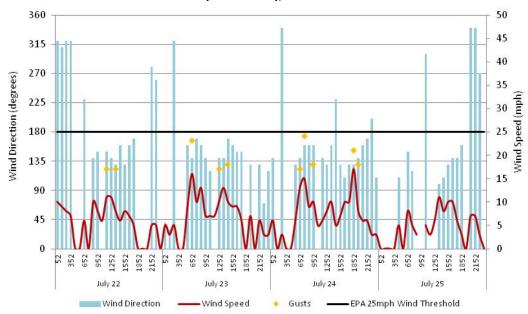
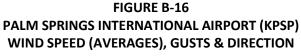


Fig. B-15: Wind data from the NCEI's QCLCD system.



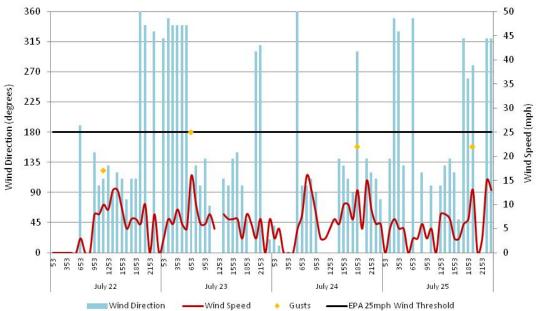


Fig. B-16: Wind data from the NCEI's QCLCD system.

SOUTHEAST SAN DIEGO COUNTY

FIGURE B-17 CAMPO AIRFIELD (KCZZ) WIND SPEED (AVERAGES), GUSTS & DIRECTION

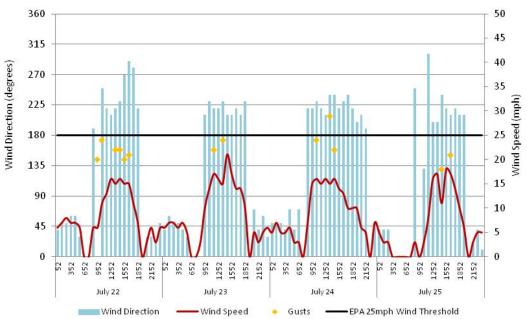


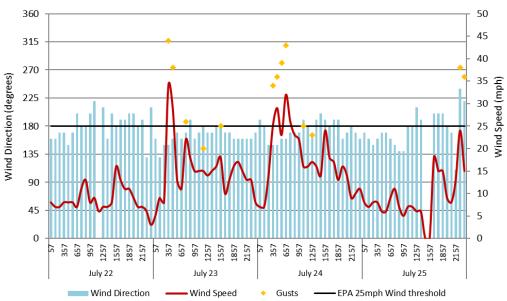
Fig. B-17: Wind data from the NCEI's QCLCD system.

UPSTREAM WIND SITES

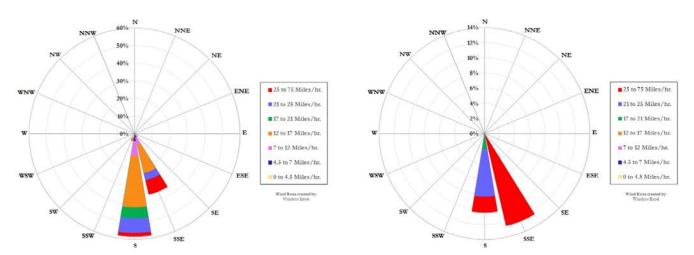
The following sites were upstream from Imperial County during the July 23-24 wind event.

SOUTHWESTERN ARIZONA

FIGURE B-18 YUMA MCAS (KNYL) WIND SPEED (AVERAGES), GUSTS & DIRECTION



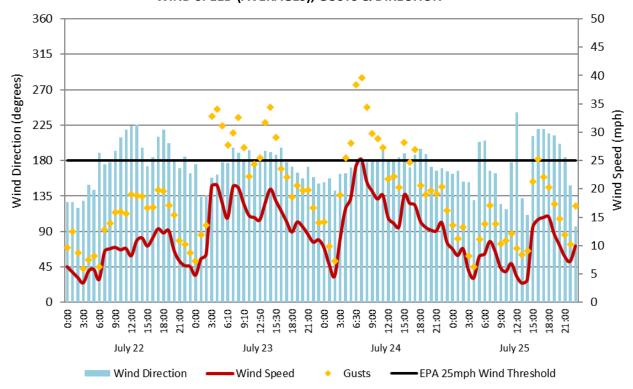
FIGURES B-19 & B-20 YUMA MCAS WIND ROSES – JULY 23 AND JULY 24



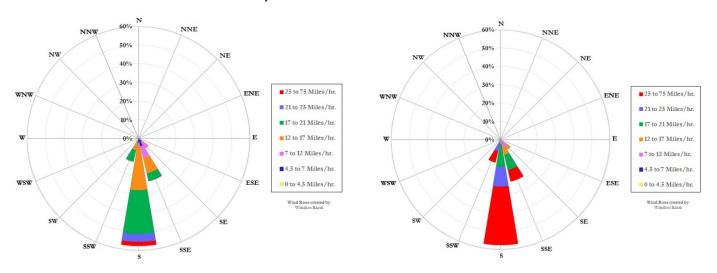
Figs. B-18, B-19 & B-20: Yuma MCAS (KNYL) had both winds of 25 mph along with gusts above 40 mph. Wind roses are for winds (left) and gusts (right). Data from the NCEI QCLCD system.

MEXICO

FIGURE B-21 SAN LUIS COLORADO, MEXICO WIND SPEED (AVERAGES), GUSTS & DIRECTION

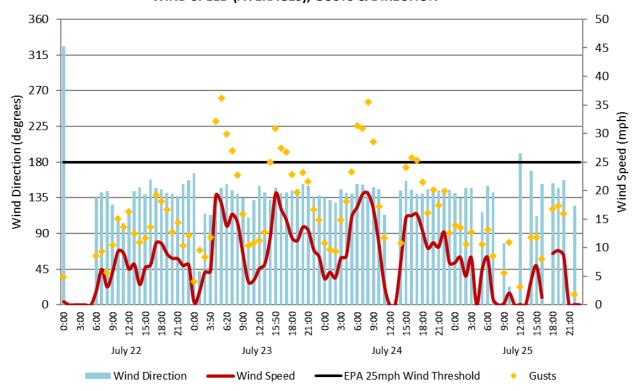


FIGURES B-22 & B-23 SAN LUIS COLORADO, MEXICO WIND ROSES – JULY 23 AND JULY 24

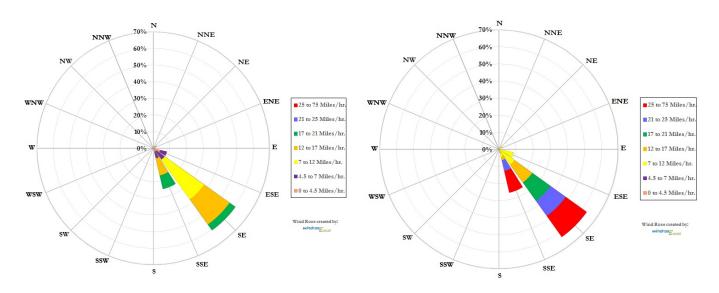


Figs. B-21, B-21 & B-23: San Luis Colorado, Mexico (Station ID: SLRS6) had both winds of 25 mph and gusts above 25 mph. Wind roses are for winds (left) and gusts (right). Data from the University of Utah's MesoWest.

FIGURE B-24 MEXICALI, MEXICO (MXCB1) WIND SPEED (AVERAGES), GUSTS & DIRECTION

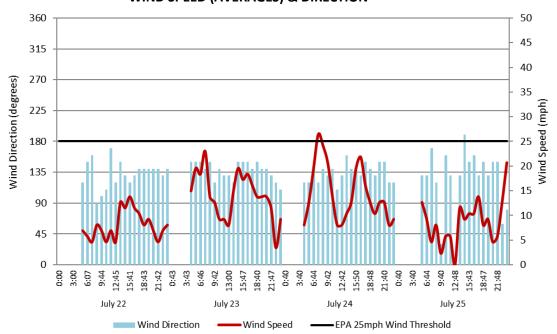


FIGURES B-25 & B-26 MEXICALI, MX WIND ROSES – JULY 23 AND JULY 24

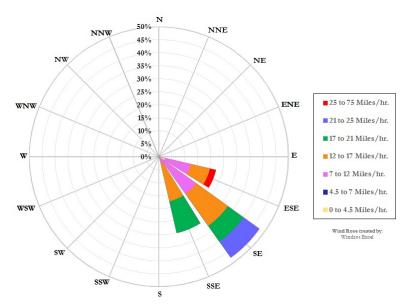


Figs. B-24, B-25 & B-26: Mexicali, Mexico (Station ID: MXCB1) did not have winds of 25 mph but gusts were above 25 mph. Wind roses are for winds (left) and gusts (right). Data from the University of Utah's MesoWest.

FIGURE B-27
MEXICALI, MEXICO INTERNATIONAL AIRPORT (MMML)
WIND SPEED (AVERAGES) & DIRECTION



FIGURES B-28
MEXICALI, MX INTERNATIONAL AIRPORT (MMML) WIND ROSE – JULY 23 AND JULY 24



Figs. B-27 & B-28: Mexicali, Mexico (Station ID MMML) did not have winds of 25 mph but gusts were above 25 mph. Wind rose is for winds. The airport does not report gusts. Data from the University of Utah's MesoWest.

FIGURE B-29 IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – JULY 23

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W Station: IMPERIAL CO AIRPORT, CA US WBAN:03144

Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

The conditions Type Conditions Type Column Co													Dry Rulb Wet Rulb				WBAN:03144	CA US V	O AIRPORT,	RIAL	n: IMPE	Statio
Company Comp	Precip Altimete		Level	Hr	Press.												Weather Type (see documentation)					D
23 0153 7 0100 87 306 77 24.9 70 21.1 57 6 080 29.76 29.70 FM-15	(in) Settin	Туре	(inHg)	(inHg)	100000	(inHg)	(MPH)	(Deg)		%		, ,		, ,			AU AW MW		2000		, ,	e
23 0253 7 CLR:00 10.00 88 31.1 78 25.4 71 21.7 57 9 120 29.75 29.69 FM-15 23 0353 7 CLR:00 10.00 88 30.0 76 24.3 88 20.0 55 8 140 29.76 5 40.0 29.76 FM-15 23 0453 7 CLR:00 10.00 89 31.7 78 25.6 70 21.1 53 21 140 29.81 29.75 FM-15 23 0553 7 CLR:00 10.00 99.2 33.3 81 27.4 75 23.9 58 17 170 29.83 29.75 FM-15 23 0553 7 CLR:00 10.00 99.3 33.9 82 27.8 75 23.9 56 7 180 29.84 1 -0.08 29.76 FM-15 23 0553 7 CLR:00 10.00 H2.7 FU.05 H2.05 99.6 35.6 84 28.9 75 23.9 56 7 180 29.84 1 -0.08 29.76 FM-15 23 0553 7 OVC:08 19 30.0 H2.7 FU.05 H2.05 97 36.1 85 29.3 75 23.9 49 9 170 29.85 29.76 FM-15 23 0553 7 OVC:08 19 30.0 H2.7 FU.05 H2.05 100 37.8 87 30.6 74 23.3 43 5 310 29.84 8 40.01 29.76 FM-15 23 1053 7 BYNO7 26 OVC:08 32 00.0 106 41.1 94 34.4 69 20.6 31 0 000 29.82 29.77 FM-15 23 1153 7 FEW:02 35 10.00 10.0	0.00 29.7		29.70	+0.00	8	29.76		010	3	43	17.2	63	24.7	76	31.1	88		10.00	CLR:00	7	0053	23
23 0353 7 CLR:00 10.00 86 30.0 76 24.3 88 20.0 55 8 140 29.76 5 40.00 29.70 FM-15 23 0453 7 CLR:00 10.00 889 31.7 78 25.6 70 21.1 53 21 140 29.76 5 40.00 29.70 FM-15 25 0553 7 CLR:00 10.00 92 33.3 81 27.4 75 23.9 58 17 170 29.83 29.77 FM-15 25 0553 7 CLR:00 10.00 92 33.3 81 27.4 75 23.9 58 17 170 29.83 29.77 FM-15 25 0553 7 CLR:00 10.00 H2.7 FU.05 H2.05 96 35.6 84 28.9 75 23.9 56 7 180 29.84 1 -0.08 29.78 FM-15 25 0853 7 OVC:08 19 3.00 H2.7 FU.05 H2.05 96 35.6 84 28.9 75 23.9 51 13 140 29.86 29.86 FM-15 25 0853 7 OVC:08 19 3.00 H2.7 FU.05 H2.05 97 36.1 85 29.3 75 23.9 81 170 29.85 29.89 FM-15 25 1053 7 OVC:08 27.00 H2.7 FU.05 H2.05	0.00 29.7		29.70	8	1				6	57		70	24.9	77	30.6	87				7	0153	23
23 0453 7 CLR:00 10.00 89 317 78 25.6 70 21.1 53 21 140 29.81 29.75 FM-15 23 0553 7 CLR:00 8.00 9.2 33.3 81 27.4 75 23.9 58 17 170 29.83 29.77 FM-15 23 0553 7 CLR:00 10.00 9.3 33.9 82 27.8 75 23.9 58 17 170 29.85 29.87 FM-15 23 0553 7 CLR:00 10.00 HZ.7 FU.05 HZ.05 96 35.6 84 25.9 75 23.9 58 13 140 29.84 1 -0.08 29.78 FM-15 23 0553 7 OVC:08 19 3.00 HZ.7 FU.05 HZ.05 97 36.1 85 29.3 75 23.9 59 91 70 29.85 29.80 FM-15 23 0553 7 OVC:08 19 3.00 HZ.7 FU.05 HZ.05 97 36.1 85 29.3 75 23.9 49 9 170 29.85 29.80 FM-15 23 0553 7 OVC:08 21 5.00 HZ.7 FU.05 HZ.05 100 37.8 87 30.6 74 23.3 43 5 310 29.84 8 +0.01 29.78 FM-15 23 1053 7 BKN07 25 70.0 104 40.0 91 32.8 72 22.2 36 3 090 29.82 29.77 FM-15 23 1153 7 FEW:02 35 10.00 106 41.1 94 34.4 69 20.6 31 0 000 29.81 FM-16 23 1153 7 FEW:02 35 10.00 107 41.7 96 35.5 67 19.4 27 8 110 29.80 29.74 FM-16 23 123 7 FEW:02 31 8.00 116 44.4 102 39.1 68 20.0 25 8 160 17 29.77 8 +0.06 29.72 FM-15 23 1433 7 CLR:00 10.00 116 46.7 117 47.1 58 47.1 48.4 102 39.1 68 20.0 25 24 140 29.70 29.68 FM-15 23 1433 7 CLR:00 10.00 116 46.7 117 44.4 102 39.1 68 20.0 25 24 140 29.70 29.68 FM-15 23 1543 7 BKN07 25 6.00 HZ.7 FU.05 HZ.05 112 44.4 102 39.1 68 20.0 25 24 140 29.70 29.68 FM-15 23 1533 7 OVC:08 25 6.00 HZ.7 FU.05 HZ.05 112 44.4 102 39.1 68 20.0 25 24 140 29.70 29.68 FM-15 23 1533 7 OVC:08 25 6.00 HZ.7 FU.05 HZ.05 112 44.4 102 39.1 68 20.0 25 24 140 29.70	0.00 29.6			0.000		29.75			9	57		71		78	31.1	88				7	0253	23
23 0553 7 CLR:00 8.00 92 33.3 81 27.4 75 23.9 58 17 170 29.83 29.77 FM-15 23 0753 7 CR:00 10.00 HZ:7 FU:05 HZ:05 96 35.6 84 29.9 75 23.9 56 7 180 29.84 1 -0.08 29.78 FM-15 23 0753 7 CR:00 10.00 HZ:7 FU:05 HZ:05 96 35.6 84 29.9 75 23.9 51 13 140 29.86 29.80 FM-15 23 0853 7 OVC:08 19 3.00 HZ:7 FU:05 HZ:05 97 36.1 85 29.3 75 23.9 49 9 170 29.85 29.79 FM-15 23 0853 7 OVC:08 21 5.00 HZ:7 FU:05 HZ:05 97 36.1 85 29.3 75 23.9 49 9 170 29.85 29.79 FM-15 23 1053 7 CR:00 10.00 HZ:7 FU:05 HZ:05 HZ:0	0.00 29.7	FM-15	29.70	+0.00	5	29.76		140	8	55	20.0	68	24.3	76	30.0	86		10.00	CLR:00	7	0353	23
23 0653 7	0.00 29.7	FM-15	29.75	0.00	1	29.81		140	21	53	21.1	70	25.6	78	31.7	89		10.00	CLR:00	7	0453	23
23 0753 7 07C08 19 3.00 H2.7 FU.05 H2.05 S 6 35.6 84 28.9 75 23.9 51 13 140 29.86 29.86 FM-15	0.00 29.7	FM-15	29.77			29.83		170	17	58	23.9	75	27.4	81	33.3	92		8.00	CLR:00	7	0553	23
23 0853 7 OVC.08 19 3.00 H2.7 FU.05 H2.05 H2.05 100 37.8 87 30.6 74 23.3 43 5 310 29.84 8 +0.01 29.78 FM-15 23 1053 7 OVC.08 21 5.00 H2.7 FU.05 H2.05 100 37.8 87 30.6 74 23.3 43 5 310 29.84 8 +0.01 29.78 FM-15 23 1053 7 OVC.08 23 70 OVC.08 24 70 70 70 70 70 70 70 7	0.00 29.7	FM-15	29.78	-0.08	1	29.84		180	7	56	23.9	75	27.8	82	33.9	93		10.00	CLR:00	7	0653	23
23 1953 7 0VC:08 21 5.00 H2.7 FU:05 H2.05 H2	0.00 29.8	FM-15	29.80	46		29.86		140	13	51	23.9	75	28.9	84	35.6	96	HZ:7 FU:05 HZ:05	6.00	BKN:07 19	7	0753	23
23 1053 7 0 0 0 0 0 0 0 0 0	0.00 29.7	FM-15	29.79	and the second		29.85		170	9	49	23.9	75	29.3	85	36.1	97	HZ:7 FU:05 HZ:05	3.00	OVC:08 19	7	0853	23
23 1153 7	0.00 29.7	FM-15	29.78	+0.01	8	29.84		310	5	43	23.3	74	30.6	87	37.8	100	HZ:7 FU:05 HZ:05	5.00	OVC:08 21	7	0953	23
23 153 7 FEW:02 35 10.00 107 41.7 96 35.5 67 19.4 27 8 110 29.80 29.74 FM:15 23 1253 7 FEW:02 31 8.00 112 44.4 102 39.1 68 20.0 25 8 160 17 29.77 8 +0.06 29.72 FM:15 23 1353 7 CLR:00 10.00 113 45.0 106 41.4 64 17.8 21 10 110 29.74 29.68 FM:15 23 1453 7 CLR:00 10.00 116 46.7 117 47.1 58 14.4 15 17 140 29.71 29.65 FM:15 23 1453 7 ENK:07 25 4.00 HZ:7 FU:05 HZ:05 112 44.4 102 39.1 68 20.0 25 24 140 29.71 29.65 FM:15 23 1533 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM:15 23 1533 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM:15 23 1533 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM:15 23 1533 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 65 18.3 24 21 150 29.68 29.62 FM:15 23 1533 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 65 18.3 24 21 150 29.68 29.62 FM:15 23 1533 7 OVC:08 25 5.00 42.7 42.00 42.8 100 37.6 55 18.3 24 21 150 29.68 29.62 FM:15 23 1533 7 OVC:08 31 10.00 106 41.1 96 35.5 64 17.8 26 16 130 29.68 5 +0.01 29.63 FM:15 23 1533 7 OVC:08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM:15 23 2153 7 CLR:00 10.00 99 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.65 FM:15 23 2153 7 CLR:00 10.00 99 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.65 FM:15	0.00 29.7		29.77			29.82		090	3	36	77.77	72		91		104			OVC:08 32	7	1053	23
23 1253 7 EW\02 31 8.00 112 44.4 102 39.1 68 20.0 25 8 160 17 29.77 8 40.06 29.72 FM\00.15 23 1453 7 CLR\00 10.00 116 46.7 117 47.1 58 14.4 15 17 140 29.71 29.65 FM\00.15 29.68 29.63 FM\00.15 29.68 FM\00.	29.7	FM-16				29.81		000	0	31	20.6	69	34.4	94	41.1	106		10.00	BKN:07 31	7	1135	23
23 1353 7 CLR:00 10.00 113 45.0 106 41.4 64 17.8 21 10 110 29.74 29.68 FM-15 23 1453 7 CLR:00 10.00 116 46.7 117 47.1 58 14.4 15 17 140 29.71 29.65 FM-15 23 1543 7 BKN0725 4.00 HZ:7 FU:05 HZ:05 112 44.4 102 39.1 68 20.0 25 24 140 29.70 FM-16 23 1553 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM-15 23 1653 7 OVC:08 29 6.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM-15 23 1653 7 OVC:08 29 6.00 HZ:7 FU:05 HZ:05 109 42.8 100 37.6 65 18.3 24 21 150 29.69 29.63 FM-15 23 1753 7 BKN0726 7.00 106 41.1 95 35.3 65 18.3 26 17 150 29.68 29.62 FM-15 23 1802 7 BKN0739 8.00 106 41.1 95 35.5 64 17.8 26 16 130 29.68 29.62 FM-15 23 1853 7 OVC:08 31 10.00 102 38.9 90 32.3 66 18.9 31 31 30 29.69 5 +0.01 29.63 FM-15 23 1953 7 OVC:08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 2153 7 CLR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 29 29 29 29 29 29 27 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 29 29 29 29 29 27 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 29 29 29 29 29 27 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 20 20 20 20 20 20 20	0.00 29.7	FM-15	29.74			29.80		110	8	27	19.4	67	35.5	96	41.7	107		10.00	FEW:02 35	7	1153	23
23 1453 7 CLR:00 10.00 116 46.7 117 47.1 58 14.4 15 17 140 29.71 29.65 FM-15 23 1533 7 BKN07 25 4.00 H2:7 [FU:05]H2:05 112 44.4 102 39.1 68 20.0 25 24 140 29.70 6 +0.07 29.64 FM-16 23 1553 7 OVC:08 25 5.00 H2:7 [FU:05]H2:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM-15 23 1553 7 OVC:08 29 6.00 H2:7 [FU:05]H2:05 119 42.8 100 37.6 65 18.3 24 21 150 29.69 29.63 FM-15 23 1753 7 BKN07 26 7.00 106 41.1 95 35.3 65 18.3 24 21	0.00 29.7	FM-15	29.72	+0.06	8	29.77	17	160	8	25	20.0	68	39.1	102	44.4	112		8.00	FEW:02 31	7	1253	23
23 1543 7 BKN07 25 4.00 HZ:7 FU:05 HZ:05 112 44.4 102 39.1 68 20.0 25 24 140 29.70 6 FM-16 23 1553 7 OVC:08 25 5.00 HZ:7 FU:05 HZ:05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM-15 23 1653 7 OVC:08 29 6.00 HZ:7 FU:05 HZ:05 109 42.8 100 37.6 65 18.3 24 21 150 29.69 29.63 FM-15 23 1653 7 OVC:08 29 6.00 HZ:7 FU:05 HZ:05 109 42.8 100 37.6 65 18.3 24 21 150 29.69 29.63 FM-15 23 183 7 OVC:08 39 8.00 106 41.1 95 35.3 65 18.3 26 17 150 29.68 29.62 FM-15 23 183 7 OVC:08 33 10.00 106 41.1 96 35.5 64 17.8 26 16 130 29.68 FM-15 23 183 7 OVC:08 33 10.00 102 38.9 90 32.3 66 18.9 31 13 130 29.69 5 +0.01 29.63 FM-15 23 1953 7 OVC:08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 1953 7 OVC:08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 125 37 CLR:00 10.00 99 37.4 85 29.2 67 19.4 37 17 140 29.73 29.67 FM-15 23 125 37 CLR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15	0.00 29.6		29.68			29.74		110	10	21	17.8	64	41.4	106	45.0	113				7	1353	23
23 1553 7 OVC.08 25 5.00 H.Z.7 FU.05 HZ.05 112 44.4 104 39.8 66 18.9 23 24 130 31 29.70 6 +0.07 29.64 FM-15 23 153 7 OVC.08 29 6.00 HZ.7 FU.05 HZ.05 109 42.8 100 37.6 65 18.3 24 21 150 29.69 29.63 FM-15 23 1753 7 23 1753 7 BKN.07 26 7.00 106 41.1 95 35.3 65 18.3 26 17 150 29.68 29.68 29.62 FM-15 23 1802 7 BKN.07 39 23 1802 7 BKN.07 39 8.00 106 41.1 96 35.5 64 17.8 26 16 130 23 183 7 OVC.08 31 10.00 102 38.9 90 32.3 66 18.9 31 31 30 29.68 FM-15 23 1953 7 OVC.08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 25 25 7 CLR.00 10.00 97 36.1 85 29.2 29.67 FM-15 130 29.74 1 -0.05 29.68 29.67 FM-15 140 29.73 29.67 FM-15 29.67	0.00 29.6	FM-15	29.65			29.71		140	17	15	14.4	58	47.1	117	46.7	116		10.00	CLR:00	7	1453	23
23 1653 7	29.6	FM-16				29.70		140	24	25	20.0	68	39.1	102	44.4	112	HZ:7 FU:05 HZ:05	4.00	BKN:07 25	7	1543	23
23 1753 7 BKN:07 26 7.00 106 41.1 95 35.3 65 18.3 26 17 150 29.68 29.62 FM-15 23 1802 7 BKN:07 39 8.00 106 41.1 96 35.5 64 17.8 26 16 130 29.68 FM-15 23 1853 7 OVC:08 43 10.00 102 38.9 90 32.3 66 18.9 31 13 130 29.69 5 +0.01 29.63 FM-15 23 1953 7 OVC:08 42 10.00 99 37.2 86 30.1 99 20.6 38 16 140 29.71 29.65 FM-15 23 2153 7 CIR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 24 25 25 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 25 2153 7 CIR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15 25 27 27 27 27 27 27 27	0.00 29.6	FM-15	29.64	+0.07	6	29.70	31	130	24	23	18.9	66	39.8	104	44.4	112	HZ:7 FU:05 HZ:05	5.00	OVC:08 25	7	1553	23
23 1802 7 BKN07 39 8.00 106 41.1 96 35.5 64 17.8 26 16 130 29.88	0.00 29.6				- 5				21			65		100			HZ:7 FU:05 HZ:05			7		23
23 1853 7 OVC.08 33 10.00 102 38.9 90 32.3 66 18.9 31 13 130 29.69 5 +0.01 29.63 FM-15 23 1953 7 OVC.08 42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 2053 7 CLR:00 10.00 97 36.1 85 29.2 67 19.4 37 17 140 29.73 29.67 FM-15 23 2153 7 CLR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15	0.00 29.6		29.62	36					17	26		65	35.3	95		106				7	1753	23
23 1953 7 OVC.08.42 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 2053 7 CLR:00 10.00 99 37.2 86 30.1 69 20.6 38 16 140 29.71 29.65 FM-15 23 2153 7 CLR:00 10.00 99 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15	29.6	FM-16		is to topo		29.68		130	16	26	17.8	64	35.5	96	41.1	106		8.00	BKN:07 39	7	1802	23
23 2053 7 CLR:00 10.00 97 36.1 85 29.2 67 19.4 37 17 140 29.73 29.67 FM-15 23 2153 7 CLR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15	0.00 29.6		29.63	+0.01	5	29.69		130	13	31	18.9	66	32.3	90	38.9	102				7	1853	23
23 2153 7 CLR:00 10.00 94 34.4 82 27.7 70 21.1 46 13 130 29.74 1 -0.05 29.68 FM-15	0.00 29.6	FM-15	29.65	0 10 10 10 10		29.71		140	16	38	20.6	69	30.1	86	37.2	99		10.00	OVC:08 42	7	1953	23
	0.00 29.6	FM-15	29.67			29.73		140	17	37	19.4	67	29.2	85	36.1	97			CLR:00	7	2053	23
23 2253 7 CLR:00 10.00 91 32.8 80 26.9 74 23.3 57 13 130 29.75 29.70 FM-15	0.00 29.6	FM-15	29.68	-0.05	1	29.74		130	13	46	21.1	70	27.7	82	34.4	94		10.00	CLR:00	7	2153	23
	0.00 29.6	FM-15	29.70			29.75		130	13	57	23.3	74	26.9	80	32.8	91		10.00	CLR:00	7	2253	23
23 2353 7 CLR:00 10.00 90 32.2 80 26.8 75 23.9 62 14 140 29.75 29.69 FM-15	0.00 29.6	FM-15	29.69			29.75		140	14	62	23.9	75	26.8	80	32.2	90		10.00	CLR:00	7	2353	23

FIGURE B-30 IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – JULY 24

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W
Station: IMPERIAL CO AIRPORT, CA US WBAN:03144

Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

D	Time	Sta- tion	Sky	Visi-	Weather Type (see documentation)	Dry Te	Bulb mp		Bulb mp	Dew Te	Point mp	Rel Hum	Speed (MPH)	Wind	Wind Gusts	Station	Press.	Net 3- Hr	Sea Level	Report	Precip Total	Alti- meter
e	(LST)	Туре	Conditions	bility	AU AW MW	(F)	(C)	(F)	(C)	(F)	(C)	%	(MPH)	(Deg)	(MPH)	(inHg)	Tend	Change (inHg)	Press. (inHg)	Type	(in)	Setting (inHg)
24	0053	7	CLR:00	10.00		89	31.7	80	26.5	75	23.9	63	10	140		29.75	0	-0.01	29.69	FM-15	0.00	29.69
24	0153		CLR:00	10.00		88	31.1	80	26.5	76	24.4	68	7	130		29.75			29.69	FM-15	0.00	29.69
24	0253		CLR:00	10.00	4	87	30.6	79	26.3	76	24.4	70	8	130		29.76			29.70	FM-15	0.00	29.70
24	0353		CLR:00	10.00		86	30.0	79	26.0	76	24.4	72	6	110		29.77	3	-0.02	29.71	FM-15	0.00	29.71
24	0453		CLR:00	10.00		86	30.0	78	25.5	74	23.3	67	11	130		29.81			29.75	FM-15	0.00	29.75
24	0553		CLR:00	10.00		87	30.6	79	26.0	75	23.9	67	16	140		29.84			29.78	FM-15	0.00	29.78
24	0653		CLR:00	10.00		91	32.8	81	27.1	75	23.9	59	25	140	31	29.87	1	-0.10	29.81	FM-15	0.00	29.81
24	0753	7	SCT:04 18	5.00	HZ:7 FU:05 HZ:05	95	35.0	83	28.2	72	22.2	47	17	160		29.88			29.82	FM-15	0.00	29.82
24	0801		BKN:07 18	4.00	HZ:7 FU:05 HZ:05	95	35.0	83	28.2	72	22.2	47	23	150	26	29.88				FM-16		29.82
24	0832		OVC:08 20	2.50	HZ:7 FU:05 HZ:05	99	37.2	87	30.7	64	17.8	32	21	150	28	29.88				FM-16		29.82
24	0853	7	OVC:08 21	2.50	HZ:7 FU:05 HZ:05	100	37.8	88	31.3	64	17.8	31	17	160		29.88			29.82	FM-15	0.00	29.82
24	0905		OVC:08 22	3.00	HZ:7 FU:05 HZ:05	100	37.8	88	31.1	65	18.3	32	16	170		29.88				FM-16		29.82
24	0953		OVC:08 24	6.00	HZ:7 FU:05 HZ:05	100	37.8	87	30.8	68	20.0	35	6	VRB		29.87	8	+0.00	29.81	FM-15	0.00	29.81
24	1044		OVC:08 30	10.00		103	39.4	91	32.6	68	20.0	32	8	300		29.85				FM-16		29.79
24	1053	_	OVC:08 32	10.00		102	38.9	89	31.9	69	20.6	35	5	240		29.85			29.79	FM-15	0.00	29.79
24	1153	7	FEW:02 34	10.00		104	40.0	92	33.1	69	20.6	32	5	300		29.83			29.77	FM-15	0.00	29.77
24	1253	7	FEW:02 38	10.00		106	41.1	94	34.6	68	20.0	29	0	000		29.81	7	+0.06	29.75	FM-15	0.00	29.75
24	1353		BKN:07 32	10.00		108	42.2	96	35.8	69	20.6	29	5	VRB		29.80			29.74	FM-15	0.00	29.74
24	1453	7	SCT:04 36	10.00	V .	109	42.8	99	37.0	67	19.4	26	7	120		29.78			29.72	FM-15	0.00	29.72
24	1551	6	BKN:07 29 BKN:07 39	7.00		109	43.0	98	36.8	68	20.0	27	22	140		29.77				FM-16		29.71
24	1553	7	BKN:07 29 BKN:07 39	7.00		109	42.8	98	36.8	68	20.0	27	21	140		29.77	6	+0.04	29.71	FM-15	0.00	29.71
24	1637	7	OVC:08 32	10.00	1	103	39.4	91	32.6	68	20.0	32	24	140		29.76				FM-16		29.70
24	1653	7	OVC:08 38	10.00		102	38.9	90	32.1	67	19.4	32	24	140		29.77			29.71	FM-15	0.00	29.71
24	1753	7	CLR:00	10.00		100	37.8	87	30.7	69	20.6	37	21	140	28	29.77			29.71	FM-15	0.00	29.71
24	1853	7	OVC:08 34	10.00		97	36.1	84	29.1	68	20.0	39	14	150		29.77	3	-0.01	29.72	FM-15	0.00	29.71
24	1953	7	SCT:04 46	10.00		95	35.0	83	28.1	69	20.6	43	13	150		29.79			29.73	FM-15	0.00	29.73
24	2053	7	CLR:00	10.00		93	33.9	82	27.6	74	23.3	54	15	130		29.81			29.75	FM-15	0.00	29.75
24	2153	7	CLR:00	10.00		91	32.8	81	27.3	76	24.4	61	14	140		29.81	1	-0.04	29.75	FM-15	0.00	29.75
24	2253	7	CLR:00	10.00	J.	90	32.2	80	26.8	75	23.9	62	13	150		29.82			29.76	FM-15	0.00	29.76
24	2353	7	CLR:00	10.00		88	31.1	80	26.5	76	24.4	68	10	120		29.83			29.77	FM-15	0.00	29.77

FIGURE B-31 EL CENTRO NAF (KNJK) QCLCD – JULY 23

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev. -42 ft. Lat. 32.8167° N Lon: -115.6833° W Station: EL CENTRO NAF, CA US WBAN: Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

D	Time	Sta-	Sky	Visi-	Weather Type (see documentation)		Bulb mp		Bulb mp	Dew Te	Point mp	Rel	Wind Speed	Wind	Wind Gusts	Station Press	Press.	Net 3- Hr	Sea Level	Report	Precip Total	Alti- meter
t e	(LST)	Type	Conditions	bility	AU AW MW	(F)	(C)	(F)	(C)	(F)	(C)	%	(MPH)	(Deg)	(MPH)	(inHg)	Tend	Change (inHg)	Press. (inHg)	Type	(in)	Setting (inHg)
23	0056		CLR:00	7.00		87	30.6	76	24.2	58	14.4	37	0	000		29.76	8	+0.01	29.76	FM-15	0.00	29.72
23	0156		CLR:00	10.00		83	28.3	73	22.5	63	17.2	51	8	360		29.76			29.76	FM-15	0.00	29.72
23	0256		CLR:00	10.00		83	28.3	74	23.1	67	19.4	59	7	090		29.75			29.75	FM-15	0.00	29.71
23	0356		CLR:00	10.00		82	27.8	73	23.0	68	20.0	63	3	120		29.76	3	-0.00	29.77	FM-15	0.00	29.72
23	0456		CLR:00	6.00	HZ:7 DU:5 SA:6 FU:05 HZ:05 DU:07	87	30.6	77	25.1	71	21.7	59	21	140		29.81			29.81	FM-15	Т	29.77
23	0556		CLR:00	6.00	HZ:7 FU:05 HZ:05	90	32.2	79	26.3	72	22.2	56	16	170		29.83			29.83	FM-15	0.00	29.79
23	0656		CLR:00	8.00	29 89	93	33.9	81	27.2	70	21.1	47	10	170		29.84	1	-0.08	29.85	FM-15	0.00	29.80
23	0756	7	CLR:00	8.00		94	34.4	82	27.8	72	22.2	49	7	110		29.85			29.85	FM-15	0.00	29.81
23	0856	7	SCT:04 19	3.00	HZ:7 FU:05 HZ:05	97	36.1	84	29.1	71	21.7	43	7	110		29.85			29.85	FM-15	0.00	29.81
23	0956	7	CLR:00	6.00	HZ:7 FU:05 HZ:05	99	37.2	86	30.1	70	21.1	39	6	VRB		29.84	8	+0.00	29.84	FM-15	0.00	29.80
23	1056	7	SCT:04 20	6.00	HZ:7 FU:05 HZ:05	101	38.3	88	31.4	68	20.0	34	3	VRB		29.82			29.83	FM-15	0.00	29.78
23	1156	7	SCT:04 24	7.00	3 1074 7 20 1 3 20 7 1 1 1	105	40.6	95	35.0	63	17.2	25	5	VRB		29.80		1	29.81	FM-15	0.00	29.76
23	1256	7	SCT:04 30	7.00		108	42.2	99	37.4	63	17.2	23	0	000		29.77		1	29.78	FM-15	0.00	29.73
23	1356	7	SCT:04 20	10.00		110	43.3	104	40.2	60	15.6	20	7	VRB		29.74			29.74	FM-15	0.00	29.70
23	1456		CLR:00	10.00		112	44.4	111	43.9	56	13.3	16	9	140		29.71			29.72	FM-15	0.00	29.67
23	1554		BKN:07 28	5.00	-RA:02 RA:61	111	44.0	104	39.9	63	17.0	21	24	140		29.70				FM-16		29.66
23	1556		BKN:07 28	5.00	-RA:02 RA:61	111	43.9	105	40.3	62	16.7	21	24	140		29.70	6	+0.08	29.70	FM-15	T	29.66
23	1656		BKN:07 24	7.00		108	42.2	100	38.0	61	16.1	22	17	140		29.68		1	29.69	FM-15	Т	29.64
23	1744		OVC:08 14	3.00	HZ:7 FU:05 HZ:05	105	40.6	95	35.0	63	17.2	25	15	140		29.68				FM-16		29.64
23	1754		OVC:08 20	4.00	HZ:7 HZ:05	106	41.0	96	35.8	63	17.0	25	15	140		29.68				FM-16		29.64
23	1756		OVC:08 20	4.00	HZ:7 FU:05 HZ:05	105	40.6	95	35.0	63	17.2	25	13	130		29.68			29.68	FM-15	0.00	29.64
23	1815		OVC:08 32	6.00	HZ:7 FU:05 HZ:05	104	40.0	94	34.5	62	16.7	25	11	130		29.68				FM-16		29.64
23	1856		OVC:08 30	9.00		100	37.8	89	31.6	62	16.7	29	11	140		29.68	5	+0.01	29.69	FM-15	0.00	29.64
23	1956	7	SCT:04 37	10.00		96	35.6	84	28.7	66	18.9	37	14	140		29.71			29.71	FM-15	0.00	29.67
23	2056	7	CLR:00	10.00		93	33.9	81	27.2	69	20.6	46	14	150	\perp	29.73			29.74	FM-15	0.00	29.69
23	2156		CLR:00	10.00		92	33.3	80	26.6	67	19.4	44	14	140		29.74	1	-0.05	29.74	FM-15	0.00	29.70
23	2256		CLR:00	10.00		90	32.2	79	26.0	70	21.1	52	8	140		29.75			29.75	FM-15	0.00	29.71
23	2356	7	CLR:00	10.00		88	31.1	79	26.0	74	23.3	63	10	140		29.75			29.75	FM-15	0.00	29.71

FIGURE B-32 EL CENTRO NAF (KNJK) QCLCD – JULY 24

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -42 ft. Lat: 32.8167* N Lon: -115.6833* W Station: EL CENTRO NAF, CA US WBAN:23199 Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

Da	Time	Sta- tion	Sky	Visi-	Weather Type (see documentation)		Bulb mp		Bulb mp		Point mp	Rel Hum	Wind	Wind	Wind Gusts	Station	Press.	Net 3- Hr		Report	Precip Total	Alti- meter
t e	(LST)	Туре	Conditions	bility	AU AW MW	(F)	(C)	(F)	(C)	(F)	(C)	%	(MPH)	(Deg)	(MPH)	(inHg)	Tend	Change (inHg)	Press. (inHg)	Type	(in)	Setting (inHg)
24	0056	7	CLR:00	10.00		87	30.6	78	25.5	73	22.8	63	6	130		29.74	0	-0.01	29.75	FM-15	0.00	29.70
24	0156	7	CLR:00	10.00		85	29.4	76	24.7	72	22.2	65	3	040		29.74			29.75	FM-15	0.00	29.70
24	0256	7	CLR:00	10.00		83	28.3	76	24.2	72	22.2	70	0	000		29.76			29.76	FM-15	0.00	29.72
24	0356	7	CLR:00	10.00		83	28.3	77	24.8	74	23.3	74	3	100		29.77	3	-0.02	29.78	FM-15	0.00	29.73
24	0456	7	CLR:00	10.00		82	27.8	76	24.2	73	22.8	74	7	110		29.81			29.81	FM-15	0.00	29.77
24	0556	7	CLR:00	10.00		86	30.0	78	25.5	74	23.3	67	13	150		29.84			29.84	FM-15	0.00	29.80
24	0656	7	CLR:00	10.00	-RA:02 RA:61	89	31.7	79	26.1	73	22.8	59	18	140		29.87	1	-0.10	29.88	FM-15	Т	29.83
24	0756	7	CLR:00	10.00		93	33.9	81	27.2	70	21.1	47	16	150		29.88			29.88	FM-15	T	29.84
24	0844	7	BKN:07 18	6.00	HZ:7 FU:05 HZ:05	97	36.1	85	29.3	65	18.3	35	14	150		29.88				FM-16	T	29.84
24	0854	6	SCT:04 20	9.00	4	97	36.0	85	29.2	66	19.0	37	9	180		29.88				FM-16		29.84
24	0856	7	SCT:04 19	9.00		97	36.1	85	29.2	66	18.9	36	10	190		29.88			29.88	FM-15	T	29.84
24	0956	7	CLR:00	10.00		98	36.7	86	29.7	67	19.4	36	5	210		29.87	8	+0.00	29.87	FM-15	0.00	29.83
24	1056	7	CLR:00	10.00		102	38.9	90	32.4	65	18.3	30	7	110		29.85			29.85	FM-15	0.00	29.81
24	1156	7	CLR:00	10.00		103	39.4	92	33.3	64	17.8	28	3	VRB		29.83			29.83	FM-15	0.00	29.79
24	1256	7	CLR:00	10.00		105	40.6	95	35.0	63	17.2	25	0	000		29.81	7	+0.06	29.81	FM-15	0.00	29.77
24	1356	7	CLR:00	10.00		106	41.1	96	35.5	64	17.8	26	8	180		29.80			29.81	FM-15	0.00	29.76
24	1456	6	CLR:00	10.00		106	41.1	97	36.1	62	16.7	24				29.78			29.78	FM-15	0.00	29.74
24	1556	7	CLR:00	9.00		108	42.2	100	38.0	61	16.1	22	10	140	20	29.76	8	+0.05	29.76	FM-15	0.00	29.72
24	1656	7	CLR:00	10.00	-RA:02 RA:61	101	38.3	89	31.9	64	17.8	30	20	140		29.76			29.76	FM-15	T	29.72
24	1756	7	OVC:08 33	10.00	-RA:02 RA:61	98	36.7	86	29.7	67	19.4	36	18	150		29.76			29.77	FM-15	T	29.72
24	1856	7	BKN:07 38	10.00		93	33.9	81	27.1	66	18.9	41	15	140		29.77	3	-0.01	29.77	FM-15	T	29.73
24	1956	7	CLR:00	10.00		93	33.9	81	27.1	67	19.4	42	14	140		29.78			29.79	FM-15	0.00	29.74
24	2056	7	CLR:00	10.00		92	33.3	80	26.8	70	21.1	49	15	130		29.80			29.81	FM-15	0.00	29.76
24	2156	7	CLR:00	10.00		89	31.7	79	26.3	74	23.3	61	15	150		29.81	1	-0.04	29.81	FM-15	0.00	29.77
24	2256	7	CLR:00	10.00		88	31.1	79	26.0	74	23.3	63	10	140		29.82			29.82	FM-15	0.00	29.78
24	2356	7	CLR:00	10.00		84	28.9	77	25.0	74	23.3	72	5	VRB		29.83			29.83	FM-15	0.00	29.79

FIGURE B-33 YUMA, AZ MCAS (KNYL) QCLCD – JULY 23

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Elev: 213 ft. Lat: 32.6500° N Lon: -114.6167° W
Station: YUMA MCAS. AZ US WBAN:03145

Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

Stat	on: YUM	A MCA	S, AZ US WB	AN:0314	15																	
D	Time	Sta- tion	Sky	Visi-	Weather Type (see documentation)	Dry Te	Bulb mp		Bulb mp	Dew Te	Point mp	Rel Hum	Wind Speed	Wind	Wind Gusts	Station Press	Press.	Net 3- Hr	Sea Level	Report	Precip Total	Alti- meter
e	(LST)	Type	Conditions	bility	AU AW MW	(F)	(C)	(F)	(C)	(F)	(C)	%	(MPH)	(Deg)	(MPH)	(inHg)	Tend	Change (inHg)	Press. (inHg)	Type	(in)	Setting (inHg)
23	0057	6	CLR:00	10.00		94	34.4	83	28.2	59	15.0	31	3	210		29.52			29.74	FM-15	0.00	29.75
23	0157	6	CLR:00	10.00		92	33.3	80	26.7	63	17.2	38	5	160		29.52	8	+0.00	29.73	FM-15	0.00	29.75
23	0257	6	CLR:00	10.00		92	33.3	81	27.2	57	13.9	31	9	130		29.50			29.72	FM-15	0.00	29.73
23	0357	6	CLR:00	10.00		91	32.8	80	26.7	56	13.3	31	8	150		29.49			29.71	FM-15	0.00	29.72
23	0439	6	SCT:04 4	10.00		91	32.8	79	26.4	59	15.0	34	31	150	38	29.53				FM-16		29.76
23	0449	6	BKN:07 5	10.00		90	32.2	78	25.7	67	19.4	47	33	150	44	29.53				FM-16		29.76
23	0457	6	BKN:07 5	10.00		89	31.7	78	25.4	68	20.0	50	34	150	41	29.54	3	-0.03	29.76	FM-15	0.00	29.77
23	0517	6	SCT:04 5	10.00		89	31.7	78	25.6	70	21.1	53	29	160	38	29.54				FM-16		29.77
23	0557	6	CLR:00	10.00		89	31.7	79	26.1	73	22.8	59	25	170	33	29.56			29.78	FM-15	0.00	29.79
23	0657	6	CLR:00	10.00		88	31.1	78	25.6	72	22.2	59	13	170		29.59			29.81	FM-15	0.00	29.82
23	0755	6	BKN:07 18	10.00		90	32.0	79	26.0	70	21.0	52	13	160		29.61				FM-16		29.84
23	0757	6	BKN:07 18	10.00		90	32.2	79	25.9	69	20.6	50	11	160		29.61	1	-0.06	29.82	FM-15	0.00	29.84
23	0855	6	SCT:04 18	10.00		97	36.0	85	29.5	63	17.0	32	22	170	26	29.60				FM-16		29.83
23	0857	6	SCT:04 18	10.00		96	35.6	84	28.9	63	17.2	34	22	180	26	29.60			29.82	FM-15	0.00	29.83
23	0957	6	CLR:00	10.00		99	37.2	87	30.5	65	18.3	33	18	190		29.60			29.82	FM-15	0.00	29.83
23	1057	6	CLR:00	10.00		102	38.9	91	32.6	64	17.8	29	15	160		29.59	8	+0.02	29.80	FM-15	0.00	29.82
23	1157	6	CLR:00	10.00		104	40.0	93	34.0	64	17.8	27	15	170		29.57			29.79	FM-15	0.00	29.80
23	1257	6	CLR:00	10.00		108	42.2	100	38.0	61	16.1	22	15	180	20	29.55			29.77	FM-15	0.00	29.78
23	1357	6	CLR:00	10.00		110	43.3	104	40.2	60	15.6	20	14	170		29.53	8	+0.06	29.74	FM-15	0.00	29.76
23	1457	6	CLR:00	10.00		111	43.9	107	41.9	58	14.4	18	15	170		29.50			29.72	FM-15	0.00	29.73
23	1557	6	CLR:00	10.00		109	42.8	103	39.6	59	15.0	20	16	180		29.49			29.70	FM-15	0.00	29.72
23	1657	6	CLR:00	10.00		108	42.2	101	38.4	60	15.6	21	18	180	25	29.47	6	+0.05	29.69	FM-15	0.00	29.70
23	1757	6	CLR:00	10.00		105	40.6	96	35.5	61	16.1	24	10	170		29.45			29.67	FM-15	0.00	29.68
23	1857	6	CLR:00	10.00		103	39.4	92	33.5	63	17.2	27	13	170		29.45			29.67	FM-15	0.00	29.68
23	1957	6	CLR:00	10.00		98	36.7	86	29.8	66	18.9	35	16	160		29.45	5	+0.02	29.67	FM-15	0.00	29.68
23	2057	6	CLR:00	10.00		94	34.4	82	27.6	65	18.3	38	17	160		29.47			29.68	FM-15	0.00	29.70
23	2157	6	CLR:00	10.00		92	33.3	80	26.6	65	18.3	41	15	160		29.48			29.70	FM-15	0.00	29.71
23	2257	6	CLR:00	10.00		90	32.2	78	25.7	67	19.4	47	13	160		29.49	1	-0.04	29.71	FM-15	0.00	29.72
23	2357	6	CLR:00	10.00		89	31.7	78	25.3	67	19.4	48	13	160		29.50			29.71	FM-15	0.00	29.73

FIGURE B-34 YUMA, AZ MCAS (KNYL) QCLCD – JULY 24

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Elev: 213 ft. Latt 32.6500° N Lon: -114.6167° W
Station: YUMA MCAS, AZ US WBAN:03145

Local Climatological Data Hourly Observations July 2016 Generated on 06/14/2017 National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

Da	Time	Sta- tion	Sky	Visi-	Weather Type (see documentation)		Bulb mp	Wet Te	Bulb mp	Dew Te	Point mp	Rel	Wind	Wind	Wind Gusts	Station Press	Press.	Net 3- Hr	Sea Level	Report	Precip Total	Alti- meter
e	(LST)	Туре	Conditions	bility	AU AW MW	(F)	(C)	(F)	(C)	(F)	(C)	%	(MPH)	(Deg)	(MPH)	(inHg)	Tend	Change (inHg)	Press. (inHg)	Туре	(in)	Setting (inHg)
24	0057	6	CLR:00	10.00		89	31.7	78	25.3	67	19.4	48	8	170		29.50			29.72	FM-15	0.00	29.73
24	0157	6	CLR:00	10.00		89	31.7	77	25.2	66	18.9	47	7	190		29.50	0	-0.01	29.72	FM-15	0.00	29.73
24	0257	6	CLR:00	10.00		88	31.1	77	24.9	67	19.4	50	7	180		29.50			29.71	FM-15	0.00	29.73
24	0357	6	CLR:00	10.00		88	31.1	77	24.9	67	19.4	50	14	150		29.50			29.72	FM-15	0.00	29.73
24	0457	6	CLR:00	10.00		87	30.6	77	24.9	70	21.1	57	25	150	34	29.53	3	-0.03	29.75	FM-15	0.00	29.76
24	0507	6	SCT:04 9	10.00		87	30.6	77	25.1	71	21.7	59	29	150	36	29.53				FM-16		29.76
24	0519	6	BKN:07 9	10.00		86	30.0	77	25.2	73	22.8	65	29	150	36	29.54				FM-16		29.77
24	0557	6	FEW:02 9	10.00		86	30.0	78	25.5	74	23.3	67	24	160	32	29.56	7		29.77	FM-15	0.00	29.79
24	0657	6	SCT:04 11	10.00		88	31.1	78	25.6	72	22.2	59	23	160	39	29.60		3	29.81	FM-15	0.00	29.83
24	0711	6	BKN:07 13	10.00		89	31.7	79	26.1	73	22.8	59	26	160	43	29.61				FM-16		29.84
24	0723	6	BKN:07 15	10.00		89	31.7	79	26.1	73	22.8	59	30	160	36	29.61				FM-16		29.84
24	0757	6	BKN:07 15	10.00		91	32.8	80	26.6	72	22.2	54	32	160	39	29.62	3	-0.09	29.84	FM-15	0.00	29.85
24	0857	6	BKN:07 18	10.00		94	34.4	82	27.6	69	20.6	44	26	170		29.63			29.85	FM-15	0.00	29.86
24	0926	6	SCT:04 23	10.00		95	35.0	83	28.1	68	20.0	41	23	170		29.63				FM-16		29.86
24	0957	6	CLR:00	10.00		97	36.1	85	29.2	66	18.9	36	23	170		29.63			29.85	FM-15	0.00	29.86
24	1057	6	CLR:00	10.00		101	38.3	90	32.1	63	17.2	29	22	170		29.62	8	+0.00	29.83	FM-15	0.00	29.85
24	1157	6	CLR:00	10.00		103	39.4	93	33.8	62	16.7	26	16	190	25	29.60			29.82	FM-15	0.00	29.83
24	1257	6	CLR:00	10.00		105	40.6	95	35.3	62	16.7	25	16	180		29.58	- 1		29.80	FM-15	0.00	29.81
24	1357	6	CLR:00	10.00		108	42.2	101	38.4	60	15.6	21	17	170	23	29.56	8	+0.06	29.78	FM-15	0.00	29.79
24	1457	6	CLR:00	10.00		107	41.7	100	37.9	59	15.0	21	16	190		29.55				FM-15	0.00	29.78
24	1557	6	CLR:00	10.00		106	41.1	97	36.1	62	16.7	24	14	200		29.53			29.75	FM-15	0.00	29.76
24	1657	6	CLR:00	10.00		102	38.9	90	32.1	67	19.4	32	24	190		29.53	5	+0.03		FM-15	0.00	29.76
24	1757	6	CLR:00	10.00		100	37.8	89	31.4	63	17.2	30	18	180	\perp	29.53				FM-15	0.00	29.76
24	1857	6	CLR:00	10.00		97	36.1	85	29.3	65	18.3	35	17	190		29.53			29.75	FM-15	0.00	29.76
24	1957	6	CLR:00	10.00		93	33.9	81	27.1	66	18.9	41	13	190		29.54	3	-0.01	29.76	FM-15	0.00	29.77
24	2057	6	CLR:00	10.00		92	33.3	80	26.7	68	20.0	46	16	160		29.56			29.78	FM-15	0.00	29.79
24	2157	6	CLR:00	10.00		90	32.2	79	26.0	70	21.1	52	14	170		29.56			29.78	FM-15	0.00	29.79
24	2257	6	CLR:00	10.00		89	31.7	78	25.5	69	20.6	52	9	180		29.57	1	-0.03	29.78	FM-15	0.00	29.80
24	2357	6	CLR:00	10.00		88	31.1	77	25.0	68	20.0	52	10	170		29.57			29.78	FM-15	0.00	29.80